

## ABSTRACT OF THE DISCLOSURE

The invention relates to a multiplexing and demultiplexing method and apparatus, wherein a transmission of input data  
5 from one or a plurality of input buffers to a plurality of  
or one output buffer, respectively, is released when all of  
the plurality of or the one output buffer is capable of  
receiving data. Thus, a plurality of devices can be  
connected to another device using only one address. The  
10 plurality of devices may then decide themselves whether the  
data belongs to them or not. In one direction, the data is  
broadcasted to all of the plurality of devices and, in the  
other direction, one of the plurality of devices can  
transmit data at a time. Accordingly, interface addresses  
15 can be saved in case the number of addresses is not enough  
for all of the plurality of devices.